



MS AF EXPEDITED PROCEDURE **EXAMINING GROUP** 1634

> PATENT 0147-0201P

## IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

GUT, Ivo Glynne et al. Conf.:

8231

Appl. No.:

09/555,971

Group:

1634

Filed:

November 14, 2000

Examiner: LU, FRANK

For:

METHOD FOR THE IDENTIFICATION OF NUCLEIC

ACID BY MEANS OF ELECTROSPRAY MASS

SPECTROMETRY

INFORMATION DISCLOSURE STATEMENT (SUBMISSION AFTER FINAL REJECTION)

MS AF

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

November 12 2004

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

#### LIST OF PATENTS, PUBLICATIONS, OR OTHER INFORMATION I.

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449, attached hereto.

#### II. COPIES

a.  $\boxtimes$ Copies of cited U.S. patents and application publications are not included. Copies of foreign patent documents and non-patent literature are included.

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and non-patent literature are included.

## III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

## a. DOCUMENTS IN THE ENGLISH LANGUAGE

The patents, publications, or other information listed on the attached PTO 1449 are in the English language and therefore, do not require a statement of relevancy.

## b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

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An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).

### d. | OTHER

The following additional information is provided for the Examiner's consideration.

## <u>FEES</u>

IV.	THIS IDS	IS BEING	FILED UNDER 37 C.F.R. § 1.97(d):
	after the	mailing	date of a Final Action under § 1.113.
VI.	PAYMENT O	F FEES (	(check one box)
	fee	required	the amount of $$180.00$ is enclosed for the under 37 C.F.R. $$1.97(d)$ and as set forth $$1.17(p)$ .
	of	\$180.00	ge Deposit Account No. 02-2448 in the amount for the fee required under 37 C.F.R. ad as set forth in 37 C.F.R. § 1.17(p).
PTO	he is re rmined tha is request	quested t this I ed to c	has any questions concerning this IDS, to contact the undersigned. If it is IDS has been filed under the wrong rule, the consider this IDS under the proper rule and a fee to Deposit Account No. 02-2448.
over fees part	urrent, an payment to required icularly,	d future Deposi under extensio	e Commissioner is hereby authorized in this, e replies, to charge payment or credit any at Account No. 02-2448 for any additional 37 C.F.R. § 1.16 or under § 1.17; on of time fees.
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Form PTO-1449

ATTY. DOCKET NO. 0147-0201P

APPLICATION NO. 09/555,971

INFORMATION DISCLOSURE CITATION IN AN APPLICATION				GUT, Ivo Glynne t al.					
	(Use several sheets if necessary)				November 14, 2	GROUP 1634			
			U	.s. PATENT D	OCUMENTS		<u> </u>		
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OTHER journal, se	rial, symposi	um, catalog, etc.) date	, page(s), vo	lume-issue number(s), publ	eitle of the article (when appro- isher, city and/or country where natorial Libraries	published.			
	Arling with e	haus, H.F. et nriched stable	al., Mu s isotop	ltiplex DNA seq e labels. Anal.	uencing and diagno: Chem. 1997. 69: 1	stics b 510-151	y hybri 7.	dizati	on
	Buchardt, O. et al., Peptide nucleic acids and their potential applications in biotechnology. Trends in Biotechnology. 1993. 11: 384-386.								
	Gut, I desorp	.G. et al., Antion/ionization	nalysis on mass	of DNA by 'char spectrometry. R	ge tagging' and mag apid Commun. Mass S	trix-as Spectro	sisted m. 1997	laser .11: 4	3-50.
	Früchtel, J.S. et al., Organic Chemistry on Solid Supports, Angew. Chem. 1996. 35: 17-42.								
	Choong, I.C. et al., Solid-Phase Synthesis: Applications to Combinatorial Libraries. Ann. Reports in Med. Chem. 1996. 31: 309-318.								
	Nielsen, P.E. et al., Peptide nucleic acids: a new dimension to peptide libraries and aptamers. Methods in Enzymology. Vol. 26: 426-433.								
•	Metzger, J.W. et al., Electrospray Mass Spectrometry and Multiple Sequence Analysis of Synthetic Peptide Libraries. Methods: A Companion to Methods in Enzymology. 1994.6: 425-431.								

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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APPLICATION NO. 09/555,971

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	Ligands	from Combin	atorial L	ibraries. Ann.	Reports in Med. C	hem. 19	96. 31:	319-325	5.
	Pomerar Electro 3867.	ntz, S.C. et ospray Ioniza	al., Deco tion Tand	nvolution of C em Mass Spectr	ombinatorial Oligo ometry. J. Am. Che	nucleot m. Soc.	ide Lib. 1997.	raries 119: 38	by 861-
	Brummel Direct 68: 237	Analysis of	., Evalua Non-Pepti	tion of Mass S de Bead-Bound	pectrometric Metho Combinatorial Libr	ds Appl aries.	icable Anal. C	to the hem. 19	996.
	Stâhl, Stefan et al., Solid phase DNA sequenceing using the biotin-avidin system, Nucleic Acids Res. 1988. 16(7), 3025-3038.								
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KAMINER	<u> </u>		1-11		DATE CONSIDERED				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.